



BIOLOGY NMDCAT EARLIER PREP

PMC UNIT WISE TEST UNIT-8

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TOPIC:

✓ **Homeostasis**

- Q.1 The protection of internal environment from the harms of fluctuations in external environment is called:**
A. Homeostasis
B. Behavior of organism
C. Adaptation
D. Anhydrobiosis
- Q.2 What are three components of homeostatic regulation?**
A. Receptors, control center and effectors
B. PNS, CNS and effectors
C. Sensory, motor and associative neurons
D. Cerebrum, cerebellum and pons
- Q.3 The organisms have the ability to resist and manage the changes by making adjustments to keep their own internal fluctuation within a:**
A. Wide range
B. Infinite range
C. Narrow range
D. Fixed value
- Q.4 The mechanism adapted by an organism to eliminate harmful nitrogenous wastes mainly depends upon:**
A. Availability of energy
B. Availability of detector in the body
C. Availability of water
D. Availability of control center
- Q.5 Select the order of toxicity for following nitrogen containing excretory products:**
1. Ammonia 2. Uric acid 3. Urea
A. 1 > 2 > 3
B. 3 > 1 > 2
C. 1 > 3 > 2
D. 3 > 2 > 1
- Q.6 What will be increased in blood if liver becomes functionless?**
A. Urea
B. Uric acid
C. Ammonia
D. Protein
- Q.7 Conversion of ammonia into urea is the function of:**
A. Liver cells
B. Skin cells
C. Nephron cells
D. Red blood cells
- Q.8 Renal arteries that supply blood to kidneys arise from:**
A. Ascending aorta
B. Thoracic aorta
C. Arch of aorta
D. Abdominal aorta
- Q.9 It represents proximal distended portion of ureter:**
A. Renal medulla
B. Renal pelvis
C. Renal hilus
D. Uretral orifice
- Q.10 Which of the following is correct about hilus of kidney?**
A. It is present on the outer convex surface
B. It is present at the inner convex surface
C. It is notch through which ureter, nerve and blood vessel enter
D. It is the place where the calyces open
- Q.11 The blood vessel leading to glomerulus is called:**
A. Renal artery
B. Efferent arteriole
C. Renal vein
D. Afferent arteriole
- Q.12 The number of nephrons in a kidney is equal to the:**
A. Number of Bowman's capsules
B. Sum of Bowman's capsules and glomerulus
C. Double the number of Bowman's capsules
D. Sum of Bowman's capsules, PCTs and DCTs
- Q.13 The central conical cavity of the kidney is called:**
A. Hilus
B. Ureter



- C. Pelvis
D. Calyx
- Q.14 Brush border is a characteristics of:**
A. Loop of Henle
B. Proximal convoluted tubule
C. Collecting tube
D. Distal convoluted tubule
- Q.15 Storage of urine and then its removal from body is function of _____ and _____, respectively.**
A. Pelvis, urethra
B. Urinary bladder, urethra
C. Urinary bladder, ureters
D. Ureters, urethra
- Q.16 Urination is controlled by sphincters present at the junction of:**
A. Ureters and urinary bladder
B. Ureters and renal pelvis
C. Urethra and urinary bladder
D. Collecting ducts and pelvis
- Q.17 In humans, kidneys are specialized to reabsorb about _____% of water from glomerular filtrate.**
A. 90
B. 0.5
C. 99.5
D. 100
- Q.18 It is a hormone produced by kidneys and helps in production of RBCs:**
A. Erythropoietin
B. Vitamin D
C. Renin
D. Angiotensinogen
- Q.19 Afferent arterioles within the kidney carry blood from:**
A. Glomerulus to renal artery
B. Glomerulus to renal vein
C. Renal artery to glomerulus
D. Peritubular network to renal vein
- Q.20 In each nephron, inner end forms a cup-shaped swelling called:**
A. Glomerulus
B. Bowman's capsule
C. Henle's capsule
D. Fibrous capsule
- Q.21 The parts of nephron which are situated in renal cortex completely:**
A. Renal corpuscle
B. PCT
C. DCT
D. Loop of Henle
E. Collecting duct
A. A, B and C only
B. A, B, C and D only
C. B and C only
D. D and E only
- Q.22 It does not allow outflow of water from filtrate:**
A. Proximal convoluted tubule
B. Descending limb of loop of Henle
C. Ascending limb of loop of Henle
D. Collecting duct
- Q.23 Tubular system of juxtamedullary nephrons loops deep into:**
A. Outer cortex
B. Inner cortex
C. Outer medulla
D. Inner medulla
- Q.24 Selective reabsorption occurs at all of the following parts of nephron except:**
A. Bowman's capsule
B. Loop of Henle
C. Proximal convoluted tubule
D. Collecting tubule
- Q.25 Permeability of epithelial cells of collecting tubules to water is increased by:**
A. Aldosterone
B. Angiotensin
C. Renin
D. Vasopressin
- Q.26 Aldosterone is involved in:**
A. Active uptake of Na^+
B. Increase in blood pressure
C. Increase in blood volume
D. All A, B, C
- Q.27 Which of the following is 100% reabsorbed at proximal convoluted tubule in a normal person?**
A. Water
B. Glucose
C. Salts
D. Urea
- Q.28 All of following participate in the production of concentrated urine except:**
A. Juxtamedullary nephrons
B. ADH
C. Vasa recta
D. Bowman's capsule
- Q.29 All of the following are easily filtered at kidneys except:**
A. Urea
B. Glucose
C. Amino acids
D. Proteins



- Q.30** It represents the target site for ADH in nephrons:
- A. Renal Corpuscle
 - B. Bowman's capsule
 - C. Collecting duct
 - D. Ascending limb of loop of Henle
- Q.31** Counter current mechanism maintains the concentration gradient in the medullary interstitium. It helps in:
- A. Reabsorption of water from PCT
 - B. Reabsorption of water from ascending limb
 - C. Reabsorption of water from DCT
 - D. Reabsorption of water from descending limb

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- Q.32** In deficiency of ADH, the rate of micturition _____.
A. Decreases
B. Remains the same
C. Increases
D. First increases then decreases
- Q.33** All of the following components of glomerular filtrate are selectively reabsorbed by kidneys except:
A. Creatinine
B. Amino acids
C. Glucose
D. Salts
- Q.34** Osmoregulation is the regulation of:
A. Water only
B. Inorganic solutes only
C. Organic solutes only
D. Water, organic and inorganic solutes
- Q.35** The active uptake of sodium in the ascending limb or thick loop of Henle is promoted by the action of:
A. ADH
B. Aldosterone
C. Oxytocin
D. Insulin
- Q.36** Which part of nephron is particularly damaged during renal failure?
A. Renal corpuscle
B. Renal tubule
C. Renal pelvis
D. Renal medulla
- Q.37** Which of the following blood vessels will have more urea as compared to others?
A. Hepatic artery
B. Hepatic portal vein
C. Hepatic vein
D. Renal vein
- Q.38** Select the incorrect statement from the following:
A. DCTs of many nephrons opens into a straight tube called collecting duct
B. In cortical nephrons, loop of Henle is too short and extended only very little in medulla
C. In juxtamedullary nephrons, loops of Henle is very long and runs deeply into medulla
D. Vasa recta is not a part of peri-tubular network
- Q.39** Cells named podocytes are present in:
A. Neck region of nephrons
B. Outer wall of Bowman's capsules
C. Glomerular capillaries
D. Inner wall of Bowman's capsules
- Q.40** A renal corpuscle is actually:
A. Another name for nephron
B. An excretory structure of insects
C. Combined name for glomerulus and Bowman's capsule
D. Combined name for PCT and DCT
- Q.41** It represents the correct order of steps involved in urine formation:
A. Ultrafiltration → Tubular secretion → Selective reabsorption
B. Selective reabsorption → Ultrafiltration → Tubular secretion
C. Tubular secretion → Selective reabsorption → Ultrafiltration
D. Ultrafiltration → Selective reabsorption → Tubular secretion
- Q.42** Green leafy vegetables and tomatoes may be the source of:
A. Oxalates
B. Urea
C. Uric acid
D. Calcium phosphate
- Q.43** Artificial kidney is used in:
A. Lithotripsy
B. Hemodialysis
C. Peritoneal dialysis
D. Surgical removal of renal stones
- Q.44** Which of the following glands play a major role in non-shivering thermogenesis?
A. Pancreas
B. Parathyroid glands
C. Thyroid gland
D. Adrenal glands
- Q.45** When the body temperature of a person is increased, then all of the following can occur to decrease body temperature except:
A. Hypothalamus activates cooling mechanism
B. Activation of sweat glands
C. Skin blood vessels constricts
D. Heat radiates from skin surface
- Q.46** In humans, the homeostatic thermostat is present in:
A. Thalamus
B. Skin
C. Hypothalamus
D. Thyroid



- Q.47** The principle nitrogenous excretory compound in humans is synthesized:
- A. In kidneys but eliminated mostly through liver
 - B. In kidneys as well as eliminated by kidneys
 - C. In liver and also eliminated by the same through bile
 - D. In the liver but eliminated mostly through kidneys
- Q.48** All of the following are endotherms except:
- A. Birds
 - B. Amphibians
 - C. Some fishes
 - D. Flying insects
- Q.49** The substances responsible for increasing the set point of the hypothalamus are called:
- A. Viroids
 - B. Prions
 - C. Pyrogens
 - D. Androgens
- Q.50** Desert animals survive without drinking water by feeding on seeds of desert plants containing more _____, which produce water of metabolism.
- A. Lipids
 - B. Proteins
 - C. Carbohydrate
 - D. Vitamins

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Bio T-8 Key

	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D	
1	●	○	○	○	16	○	○	●	○	31	○	○	○	●	46	○	○	●	○	
2	●	○	○	○	17	○	○	●	○	32	○	○	●	○	47	○	○	○	●	①
3	○	○	●	○	18	●	○	○	○	33	●	○	○	○	48	○	●	○	○	②
4	○	○	●	○	19	○	○	●	○	34	○	○	○	●	49	○	○	●	○	③
5	○	○	●	○	20	○	●	○	○	35	○	●	○	○	50	○	○	●	○	④
6	○	○	●	○	21	●	○	○	○	36	●	○	○	○	51	○	○	○	○	⑤
7	●	○	○	○	22	○	○	●	○	37	○	○	○	●	52	○	○	○	○	⑥
8	○	○	○	●	23	○	○	○	●	38	○	○	○	●	53	○	○	○	○	⑦
9	○	●	○	○	24	●	○	○	○	39	○	○	○	●	54	○	○	○	○	⑧
10	○	○	●	○	25	○	○	○	●	40	○	○	○	●	55	○	○	○	○	⑨
11	○	○	○	●	26	○	○	○	●	41	○	○	○	●	56	○	○	○	○	Su
12	●	○	○	○	27	○	●	○	○	42	●	○	○	○	57	○	○	○	○	Na
13	○	○	●	○	28	○	○	○	●	43	○	●	○	○	58	○	○	○	○	Rc
14	○	●	○	○	29	○	○	○	●	44	○	○	○	●	59	○	○	○	○	Cl
15	○	●	○	○	30	○	○	●	○	45	○	○	○	●	60	○	○	○	○	Ci

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Regards.Huzaiifa Saeed,Usama Sohail

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